

Amendments to the Claims:

Claim 1 (Currently Amended): A drive current supply circuit for supplying drive current to a laser diode used for reading data from and writing data on an optical disk, comprising:

a first current mirror circuit having two parallel lines, said laser diode being connected with one of the two parallel lines; and

a control circuit connected with the other of the two parallel lines, said control circuit ~~controls~~ controlling the current flowing in this line in accordance with a potential of this line,

this potential comprising a steady DC component when reading data; and

this potential comprising a drive signal component added to said DC component when writing data.

Claim 2 (Currently Amended): The drive current supply circuit according to claim 1, wherein said first current mirror circuit comprises first and second field-effect transistors with their gates connected in common,

wherein the channel of said first field-effect ~~transistors~~ transistor is said one of said lines, and

wherein the channel of said second field-effect ~~transistors~~ transistor is said other of said lines.

Claim 3 (Currently Amended): The drive current supply circuit according to claim 1, further comprising a second current mirror circuit having two parallel lines, one of said lines of said second current mirror circuit being connected with said laser diode, [[and]]

wherein said control circuit controls the current flowing through the other of said lines of said second current mirror circuit in accordance with a potential of the other of said lines, this potential comprising a steady DC component when reading data; and this potential comprising a drive signal component added to said DC component when writing data.